

ABSTRACT

[0071] A wireless audio transmission apparatus and method for coupling audio players to audio receivers for broadcast of audio signals stored in and processed by the audio player. A housing carrying operative circuitry is electrically connected by a multiconductor cable to an audio player for receiving stereo channel signals. Band pass filters couple the stereo signal and signal ground conductors in the cable to the stereo encoder in the housing. The filtered stereo signals are received by a stereo encoder in the housing and modulated onto a radio frequency carrier signal. A transmitter coupled to an antenna carried in the cable wirelessly transmits the carrier signal and the audio signals to a remote radio frequency receiver for demodulation and broadcast of the audio signals. Preferably, the carrier signal is an FM radio frequency signal. The carrier signal is optionally selectable from a plurality of different carrier signal frequencies. In an optional aspect, the operative circuitry in the housing may be embedded directly in an audio player.